

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
31 January 2002 (31.01.2002)

PCT

(10) International Publication Number
WO 02/07603 A1

(51) International Patent Classification⁷: A61B 10/00

(21) International Application Number: PCT/IT01/00387

(22) International Filing Date: 19 July 2001 (19.07.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
FI2000A000168 24 July 2000 (24.07.2000) IT

(71) Applicant and

(72) Inventor: CASTELLACCI, Pietro [IT/IT]; Via A. M. Bandini, 3, I-50134 Firenze (IT).

(74) Agents: MANNUCCI, Gianfranco et al.; Via della Scala, 4, I-50123 Firenze (IT).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,

DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

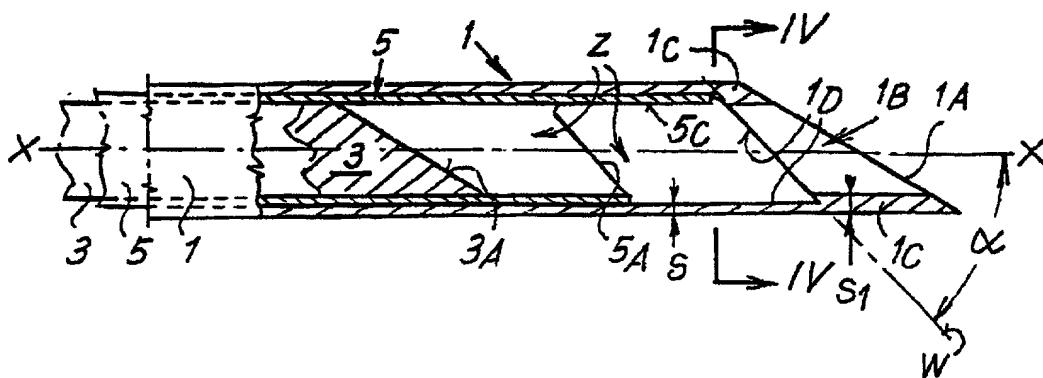
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A NEEDLE OF THE BIOPSY TYPE OR FOR TAKING OTHER SAMPLES FROM HUMAN OR ANIMAL ORGANS



(57) Abstract: The needle comprises an external cannula (1) and a closing stem (3). The cannula (1) has one portion of relatively small thickness (s) and one portion, set at the mouth (1B) of the needle, of a larger thickness (s1), the two portions of different thickness being separated by an internal edge (1D) developed according to a plane (W) inclined with respect to the axis (X-X) of the cannula. Inserted between the cannula (1) and the stem (3) is a tubular element (5), which can slide axially and which can be controlled independently, the said tubular element (5) having one end provided with a tab-like extension (5C) designed to engage with said inclined edge (1D) so as to undergo deflection in order to close the mouth of the cannula (1).

WO 02/07603 A1